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 (c) 2004 The HW Wilson Co
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 (c)2004 Knight Ridder/Tribune Bus News
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 File 613:PR Newswire 1999-2004/May 25
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 (c) 2004 San Jose Mercury News
 File 635:Business Dateline(R) 1985-2004/May 22
 (c) 2004 ProQuest Info&Learning
 File 636:Gale Group Newsletter DB(TM) 1987-2004/May 25
 (c) 2004 The Gale Group
 File 647:CMP Computer Fulltext 1988-2004/May W3
 (c) 2004 CMP Media, LLC
 File 696:DIALOG Telecom. Newsletters 1995-2004/May 24
 (c) 2004 The Dialog Corp.
 File 674:Computer News Fulltext 1989-2004/May W3
 (c) 2004 IDG Communications
 File 810:Business Wire 1986-1999/Feb 28

(c) 1999 Business Wire
File 813:PR Newswire 1987-1999/Apr 30
(c) 1999 PR Newswire Association Inc

Set	Items	Description
S1	95328	CABLE(3N) (MODEM OR MODULAT?()DEMOLAT?)
S2	18675	(MULTIPLE OR SECTION? OR PORTION? OR PART OR PARTS OR SECT- OR?)(3N) (FRAMES OR FRAME)
S3	11995	PATTERN(3N)MATCH?
S4	8777	ADDRESS(3N)SEGMENT?
S5	7318	VARIOUS(3N)LENGTH?
S6	17861	(BIT OR BYTE OR KILOBYTE? OR MEGABYTE?)(3N) (LENGTH? OR SIZ- E)
S7	6392	WORD(3N) (LENGTH? OR SIZE)
S8	85292	(DATA OR VIDEO)(3N) (SIZE OR VOLUME)
S9	543461	MAC OR MEDIUM()ACCESS()CONTROL
S10	848970	IP OR INTENET()PROTOCOL?
S11	10682	PROTOCOL()IDENTIFIER? OR PID
S12	119523	MPEG OR MOVING()PICTURE()EXPERT()GROUP
S13	4501	INDEX(3N) (ENTRY OR ENTRIES)
S14	856	MULTIMEDIA(5N)CABLE()NETWORK()SYSTEM
S15	2165	AU=(BERNATH, B? OR GOLDENBERG, M? OR BROOKS, J? OR BERNATH B? OR GOLDENBERG M? OR BROOKS J?)
S16	112	S1(3N)PROGRAMMABLE
S17	68117	(GENERAT? OR CREAT?)(3N) (INDEX OR INDICES OR TABLE?)
S18	0	S16(S)S2
S19	27	S16(S)S4:S12
S20	0	S19(S)S3
S21	0	S19(S) (S13 OR S17)
S22	0	S19(S) (INDEX OR INDICES OR TABLE?)
S23	13	RD S19 (unique items)
S24	3	S15 AND S16
S25	0	S24 NOT S19
S26	0	S16(5N)DYNAMIC?
S27	13	S1(S)S2
S28	13	S27 NOT (S19 OR S24)
S29	6	RD S28 (unique items)
S30	0	S1(S)S3
S31	11	S1(S)S4
S32	0	S31(S)S5
S33	1	S1(S)S5
S34	23	S1(S)S6
S35	7	S1(S)S7
S36	72	S1(S)S8
S37	0	S36(S)S13
S38	0	S1(S)S11
S39	646	S1(S)S12
S40	0	S39(S) (S13 OR S17)
S41	104	S31 OR S33 OR S34 OR S36
S42	0	S41(S)PATTERN?
S43	2	S41(S) (INDEX OR INDICES OR TABLE?)
S44	1	RD S43 (unique items)
S45	0	S38(S)S2
S46	5	S15 AND S1
S47	4	S46 NOT (S43 OR S27 OR S23)
S48	2	RD S47 (unique items)

23/3,K/1 (Item 1 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2004 The Gale Group. All rts. reserv.

08304280 Supplier Number: 69237742 (USE FORMAT 7 FOR FULLTEXT)

Programmable Cable Modems Get a Boost.(Technology Information)

BERNATH, BRETT

Electronic News (1991), v46, n43, p30

Oct 23, 2000

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1553

... future, there will be additional opportunities to exploit the superior performance and flexibility of software **MAC** architectures. Processing is becoming more and more decentralized, and as the cost of processors continues...

...continue to go up. By continuing to refine this data flow management software in a **programmable MAC** architecture, the **cable modem** can become the first product platform with the potential to be a true, high-performance...

23/3,K/2 (Item 2 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2004 The Gale Group. All rts. reserv.

08278186 Supplier Number: 69956365 (USE FORMAT 7 FOR FULLTEXT)

Conexant First to Combine Interactive Television Capability and Broadband Internet Connectivity in Single-Chip Solution.

Business Wire, p2018

Feb 5, 2001

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1238

... media access controller (MAC) to accommodate new standards.

The CX24420 leverages the company's extensive **cable - modem** portfolio, particularly its **programmable MAC** technology. Conexant's success and pedigree in DOCSIS and DVB/DAVIC **MAC** technology provided a strong foundation for the development of the chip, which helps customers develop...

23/3,K/3 (Item 3 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2004 The Gale Group. All rts. reserv.

07952160 Supplier Number: 66432387 (USE FORMAT 7 FOR FULLTEXT)

Conexant and Liberate to Bring Complete Digital Set-Top Box Platforms to Market; Combined Solution to Speed Time-to-Market for Network Operators.

Business Wire, p2029

Oct 30, 2000

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1033

... s comprehensive set-top box IC portfolio includes silicon tuners and demodulators, a single-chip **programmable cable modem**, dial-up and

digital subscriber line (DSL) modems, home-networking technologies and single-chip, back-end solutions with a high-performance CPU, 2D rendering engine, **MPEG -2** audio/video decoder and programmable demultiplexer.

These products enable set-top box platforms that...

23/3,K/4 (Item 4 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2004 The Gale Group. All rts. reserv.

07470320 Supplier Number: 62789007 (USE FORMAT 7 FOR FULLTEXT)
**Conexant Releases Industry's First Complete Solution for Developing
Broadband Access Gateway Products for the European Market.**

Business Wire, p2060
June 19, 2000
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 1135

... less costly and more power-efficient than alternative digital cable-modem solutions.

Conexant's unique **programmable cable - modem** architecture also improves system performance as compared with full-hardware solutions, since its software-based media access control (**MAC**) layer enables cable-modem functionality to be distributed more efficiently among a number of processing...

23/3,K/5 (Item 1 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

18877179 (USE FORMAT 7 OR 9 FOR FULLTEXT)
**Conexant's Single-Chip Cable Modem Solution Achieves Euro-DOCSIS 1.0
Certification**

BUSINESS WIRE
September 18, 2001
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 715

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... the industry's first single-chip cable modem, with a software programmable Media Access Controller (**MAC**) feature, to receive Euro-DOCSIS approval.

"Securing Euro-DOCSIS certification reinforces our commitment to supporting...

...The complete solution includes Conexant's CN9414 single-chip cable modem integrated circuit (IC), programmable **MAC** , and complete Euro-DOCSIS software application.

Conexant's cable-modem portfolio is designed for global...

23/3,K/6 (Item 2 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

11559880 (USE FORMAT 7 OR 9 FOR FULLTEXT)
CONEXANT SYSTEMS: Conexant releases industry's first complete solution for

developing broadband access gateway products for the European market;
Co-developed with Cisco, Conexant's complete reference design includes a
single-chip cable modem and associate

M2 PRESSWIRE

June 19, 2000

JOURNAL CODE: WMPR LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1153

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... system performance as compared to full-hardware solutions, since
its software-based media access control (**MAC**) layer enables cable-modem
functionality to be distributed more efficiently among a number of
processing...

23/3,K/7 (Item 3 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter

(c) 2004 The Dialog Corp. All rts. reserv.

08753413 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**CISCO SYSTEMS: Cisco and Conexant to jointly develop cable modems for
Europe and other worldwide markets**

M2 PRESSWIRE

December 16, 1999

JOURNAL CODE: WMPR LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 777

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... Cisco's expertise in interactive network adaptor (INA) systems and
DVB cable media access control (**MAC**) technology. It will comply with the
latest DVB and DAVIC standards supported by leading multiple...

... customise feature sets, support new standards, or migrate to future
capabilities such as Internet Protocol (**IP**) telephony and home
networking.

Cisco and Conexant expect to release their jointly developed reference
design...

23/3,K/8 (Item 4 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter

(c) 2004 The Dialog Corp. All rts. reserv.

08742199 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**Cisco and Conexant to Jointly Develop Cable Modems for Europe, China,
Australia, Latin America and Other Worldwide Markets**

CANADIAN CORPORATE NEWS

December 15, 1999

JOURNAL CODE: WCCN LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 801

(USE FORMAT 7 OR 9 FOR FULLTEXT)

.... Cisco's expertise in interactive network adaptor (INA) systems and
DVB cable media access control (**MAC**) technology. It will comply with the
latest DVB and DAVIC standards supported by leading multiple...

23/3,K/9 (Item 5 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

08604078 (USE FORMAT 7 OR 9 FOR FULLTEXT)

CONEXANT SYSTEMS: Conexant adds miniature single- chip silicon tuner to programmable cable modem soln

M2 PRESSWIRE

December 07, 1999

JOURNAL CODE: WMPR LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1154

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... via on-line software upgrades of the cable-modem chip's programmable Media Access Control (**MAC**) layer.

"With our CN2811 silicon tuner, we've taken another major step toward enabling much...

23/3,K/10 (Item 6 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

08570700 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Conexant Adds Miniature Single-Chip Silicon Tuner to Its Programmable Cable Modem Solution

BUSINESS WIRE

December 06, 1999

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1254

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... standards via online software upgrades of the cable-modem chip's programmable Media Access Control (**MAC**) layer.

"With our CN2811 silicon tuner, we've taken another major step toward enabling much...

23/3,K/11 (Item 1 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

04829084 Supplier Number: 64332626 (USE FORMAT 7 FOR FULLTEXT)

Conexant adds miniature single- chip silicon tuner to programmable cable modem soln.

M2 Presswire, pNA

Dec 7, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1229

... for high-speed Internet access. It will be sold together with Conexant's single-chip, **programmable cable modem** to create a complete system solution that is up to 25 percent less costly and...

...support new feature sets and evolving industry standards via on-line software upgrades of the **cable - modem** chip's **programmable** Media Access Control (**MAC**) layer.

"With our CN2811 silicon tuner, we've taken another major step toward enabling much...

23/3,K/12 (Item 2 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

04512145 Supplier Number: 58291637 (USE FORMAT 7 FOR FULLTEXT)
CISCO SYSTEMS: Cisco and Conexant to jointly develop ca cable modems for Europe and other worldwide markets.
M2 Presswire, pNA
Dec 16, 1999
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 823

4. Audio Video Council (DAVIC)

The reference design is based on Conexant's single-chip InfoSurge **programmable cable modem** solution, and draws upon Cisco's expertise in interactive network adaptor (INA) systems and DVB cable media access control (**MAC**) technology. It will comply with the latest DVB and DAVIC standards supported by leading multiple...cable modems. Conexant this year was the first semiconductor vendor to offer a single-chip, **programmable cable modem** solution that supports both DVB/DAVIC standards and ECCA Euromodem functionality. Manufacturers who use the...customise feature sets, support new standards, or migrate to future capabilities such as Internet Protocol (**IP**) telephony and home networking.

Cisco and Conexant expect to release their jointly developed reference design...

23/3,K/13 (Item 1 from file: 647)

DIALOG(R)File 647:CMP Computer Fulltext
(c) 2004 CMP Media, LLC. All rts. reserv.

01228265 CMP ACCESSION NUMBER: EET20001211S0084
Creating a broadband digital home
Alberto Mantovani, Division Director, Small Business and Consumer Networking, Personal Computing Division, Conexant Systems Inc., San Jose, Calif.
ELECTRONIC ENGINEERING TIMES, 2000, n 1144, PG107
PUBLICATION DATE: 001211
JOURNAL CODE: EET LANGUAGE: English
RECORD TYPE: Fulltext
SECTION HEADING: COMMUNICATIONS - FOCUS: HIGH-SPEED CONNECTIVITY
WORD COUNT: 1833

... video broadcast (DVB) and EuroDocsis are well-established alternatives in this market.

Fundamentally, a programmable **MAC** implementation consists of a processor, memory and various hardware coprocessors used to both process the data and move it through the system. As pioneered in Conexant's InfoSurge **programmable single-chip cable modem**, the software **MAC** architecture is partitioned so that hardware performs computationally intensive operations on data while moving the data through the system. The **MAC** software handles the control functions, manages the data flow and executes any other functions that...

...change in the future. Even though embedded processor performance has improved, companies have customized the **MAC** processor to optimize data flow through the cable modem and to eliminate wasted processor bandwidth

...

?

29/3,K/1 (Item 1 from file: 9)
DIALOG(R)File 9:Business & Industry(R)
(c) 2004 The Gale Group. All rts. reserv.

1933887 Supplier Number: 01933887 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Telecom Roundup - Phasecom Demos SpeedDemon Cable Modem Sys
(Phasecom demonstrates its SpeedDemon residential cable modem system to
Cable Television Laboratories)
Newsbytes News Network, p N/A
August 25, 1997
DOCUMENT TYPE: Journal ISSN: 0983-1592 (United States)
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 180

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...Staff. Cable TV network developer Phasecom Inc. said it recently demonstrated its existing SpeedDemon residential **cable modem** system to **Cable Television Laboratories, Inc. (CableLabs)**. The demonstration was the first step toward introducing a Multimedia Cable Network Systems (MCNS)-compliant interoperable residential **cable modem** system later this year. Phasecom said it is actively working with CableLabs and the rest of the **cable modem** vendor community to offer interoperable cable modems. SpeedDemon is an asymmetric and frequency agile **cable modem** employing Quadrature Amplitude Modulation (QAM) for the downstream and Quaternary Phase Shift Keying (QPSK) for the upstream. The system employs TDMA (Time Division **Multiple Access**). Ethernet **frames** carrying Internet protocol (IP) traffic received are encapsulated in Motion Pictures Experts Group-2 (MPEG...

29/3,K/2 (Item 2 from file: 9)
DIALOG(R)File 9:Business & Industry(R)
(c) 2004 The Gale Group. All rts. reserv.

1699910 Supplier Number: 01699910 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Adapt to thrive
(Lucent Technologies is leading equipment supplier with revenues of \$18.4
bil; Motorola rose to second with revenues of \$16.2 bil)
CommunicationsWeek International, n 175, p 22+
November 25, 1996
DOCUMENT TYPE: Journal; Ranking ISSN: 1042-6086 (France)
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 1830

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...an Internet/Telecom Business Unit alongside its Enterprise Business Unit, and this year it acquired **cable modem** maker LANcity and the modem unit of Penril Datacomm Networks to get into the hot...

...million in revenues), has successfully levered its enterprise multiplexer base into the carrier ATM and **frame relay sectors** .

But no enterprise vendor is as aggressive as Cisco, which now rubs elbows with the...

29/3,K/3 (Item 1 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2004 The Gale Group. All rts. reserv.

06530986 Supplier Number: 55322303 (USE FORMAT 7 FOR FULLTEXT)

**Atlas Communication Engines Announces New Version of the Atlas
Communication Operating System - Revolutionary New RTOS For OEM
Internetworking Equipment.**

Business Wire, p0462

August 2, 1999

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 521

... Applications include Integrated Access Devices (IADs), web servers, ATM access concentrators, mini DSLAMs, wireless or **cable modem** network platforms, VPN routers, voice over IP/ATM gateways, set top boxes, etc. The latest version of ACOS will offer support for Frame Relay, **Frame** Relay/ATM interworking, **multiple** virtual connections, SNMP management and advanced API management.

"The Diamond Internetworking System represents the next...

29/3,K/4 (Item 2 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2004 The Gale Group. All rts. reserv.

05199369 Supplier Number: 47933015 (USE FORMAT 7 FOR FULLTEXT)

Telecom Roundup - Phasecom Demos SpeedDemon Cable Modem Sys 08/25/97

Newsbytes, pN/A

August 25, 1997

Language: English Record Type: Fulltext

Document Type: Newswire; General Trade

Word Count: 187

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...Staff. Cable TV network developer Phasecom Inc. said it recently demonstrated its existing SpeedDemon residential **cable modem** system to Cable Television Laboratories, Inc. (CableLabs). The demonstration was the first step toward introducing a Multimedia Cable Network Systems (MCNS)-compliant interoperable residential **cable modem** system later this year. Phasecom said it is actively working with CableLabs and the rest of the **cable modem** vendor community to offer interoperable cable modems. SpeedDemon is an asymmetric and frequency agile **cable modem** employing Quadrature Amplitude Modulation (QAM) for the downstream and Quaternary Phase Shift Keying (QPSK) for the upstream. The system employs TDMA (Time Division **Multiple** Access). Ethernet **frames** carrying Internet protocol (IP) traffic received are encapsulated in Motion Pictures Experts Group-2 (MPEG...

29/3,K/5 (Item 3 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2004 The Gale Group. All rts. reserv.

05193897 Supplier Number: 47925694 (USE FORMAT 7 FOR FULLTEXT)

**Phasecom To Launch Prototype Interoperable, MCNS Compliant Residential
Cable Modem at WCS '97; Phasecom Demonstrates SpeedDemon Residential
Cable Modem System to CableLabs.**

Business Wire, p8221037
August 22, 1997
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 324

... cable modem vendor community toward interoperable cable modems.
SpeedDemon is an asymmetric and frequency agile **cable modem** employing Quadrature Amplitude Modulation (QAM) for the downstream and Quaternary Phase Shift Keying (QPSK) for the upstream. The system employs TDMA (Time Division **Multiple Access**). Ethernet **frames** carrying IP traffic received are encapsulated in MPEG-2 frames and transmitted in the downstream...

29/3,K/6 (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

02328003 SUPPLIER NUMBER: 55670568 (USE FORMAT 7 OR 9 FOR FULL TEXT)
A NEW VERSION OF A COMMUNICATIONS OPERATING SYSTEM.(from Atlas Communications Engines) (Product Announcement)
Teleconnect, 17, 9, 20
Sept, 1999
DOCUMENT TYPE: Product Announcement ISSN: 0740-9354 LANGUAGE:
English RECORD TYPE: Fulltext
WORD COUNT: 185 LINE COUNT: 00019

... applications include integrated access devices (IADs), Web servers, ATM access concentrators, mini DSLAMs, wireless or **cable modem** network platforms, VPN routers, voice over IP/ATM gateways, set-top boxes, etc. The latest version of ACOS will offer support for frame relay, **frame** relay/ATM interworking, **multiple** virtual connections, SNMP management, and advanced API management.

An interesting new feature is the addition...

?

44/3,K/1 (Item 1 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

11006013 SUPPLIER NUMBER: 54436312 (USE FORMAT 7 OR 9 FOR FULL TEXT)

NEW MEDIA. (News Briefs)

Communications Daily, 19, 76, NA

April 21, 1999

ISSN: 0277-0679 LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 1027 LINE COUNT: 00086

TEXT:

...Systems introduced Tues. first integration of Data Over Cable Service Interface Specification (DOCSIS) 1.1 **cable modem** with router to deliver Internet Protocol (IP) telephony. CableLabs hasn't finished drafting DOCSIS 1...

...provide quality of service for voice traffic over shared cable infrastructure, but Cisco said partnered **cable modem** and router will allow company to test early DOCSIS 1.1 standards. AtHome Network launched

...

?

48/3,K/1 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2004 ProQuest Info&Learning. All rts. reserv.

02650202 411405421

LAN of the free

Marshall, Anne; **Brooks, Joel**
CA Magazine v136n7 PP: 24-27 Sep 2003
ISSN: 0317-6878 JRNL CODE: CCA
WORD COUNT: 1713

... **Brooks, Joel**

...TEXT: a home WLAN, the hub would typically be connected to the digital subscriber line or **cable modem** from the Internet service provider via an Ethernet cable. For larger implementations, the building blocks...

48/3,K/2 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

13393589 SUPPLIER NUMBER: 69237742 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Programmable Cable Modems Get a Boost. (Technology Information)

BERNATH, BRETT
Electronic News (1991), 46, 43, 30
Oct 23, 2000
ISSN: 1061-6624 LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 1553 LINE COUNT: 00135

BERNATH, BRETT

TEXT:

THE DIGITAL **CABLE MODEM** has emerged as one of the most promising product platforms in the broadband connectivity arena. As this new market quickly takes shape, it has become increasingly clear that **cable modem** manufacturers will require significant levels of system integration and flexibility in order to navigate a...

As **cable - modem** standards, market requirements and technologies evolve, one of the biggest challenges is in the design...

...and host-based cable modems.

For example, PCI, USB, and VoIP implementations will require the **cable - modem** device to support advanced Layer 2 and Layer 3 bridging/routing to a variety of...

...and applications. Applications such as games or Web browsers could also be executed on the **cable modem** acting as a network computer, but this will require application-dependent Layer 4-7 filtering...

...voice and other types of traffic that require quality of service will necessitate that the **cable modem** receive, prioritize, and forward traffic at line rate. Because a programmable broadband MAC is flexible...

...MAC architecture also helps designers serve worldwide markets with a single platform. More and more **cable modem** suppliers must simultaneously support evolving U.S. DOCSIS standards as well as the DVB, DAVIC...

...performance has improved, companies have customized the MAC processor to optimize data flow through the **cable modem** and to eliminate wasted

processor bandwidth.

Performance and flexibility are the key benefits of a...is easy to modify the programmable MAC's logic to reroute voice data within the **cable - modem** device to a DSP, with minimal performance impact. In contrast, a hardware solution would typically...

...within an embedded controller, concurrent with its existing application software. The result is significantly reduced **cable . modem** performance.

Broadband Evolution

Cable modems and other broadband devices will continue to perform more and more functions and applications...

...By continuing to refine this data flow management software in a programmable MAC architecture, the **cable modem** can become the first product platform with the potential to be a true, high-performance...
?